

Hai-Zhu Yu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1561603/publications.pdf>

Version: 2024-02-01

106
papers

4,105
citations

117625

34
h-index

123424

61
g-index

113
all docs

113
docs citations

113
times ranked

4137
citing authors

#	ARTICLE	IF	CITATIONS
1	Secondary ligand engineering of nanoclusters: Effects on molecular structures, supramolecular aggregates, and optical properties. <i>Aggregate</i> , 2023, 4, .	9.9	8
2	The self-assembled AgCd nanoclusters: A novel plutonium separating material. <i>Chemical Engineering Journal</i> , 2022, 431, 134169.	12.7	1
3	Multiple Ways Realizing Charge-State Transform in Au ₁₃ Cu Bimetallic Nanoclusters with Atomic Precision. <i>Small</i> , 2021, 17, e1907114.	10.0	19
4	Pivotal Electron Delivery Effect of the Cobalt Catalyst in Photocarboxylation of Alkynes: A DFT Calculation. <i>Journal of Organic Chemistry</i> , 2021, 86, 1540-1548.	3.2	3
5	DFT insights into the Ni-catalyzed regioselective hydrocarboxylation of unsaturated alkenes with CO ₂ . <i>Dalton Transactions</i> , 2021, 50, 15084-15093.	3.3	4
6	The pivotal alkyne group in the mutual size-conversion of Au ₉ with Au ₁₀ nanoclusters. <i>Dalton Transactions</i> , 2021, 50, 10113-10118.	3.3	2
7	Redox-Induced Interconversion of Two Au ₈ Nanoclusters: the Mechanism and the Structure-Bond Dissociation Activity Correlations. <i>Inorganic Chemistry</i> , 2021, 60, 5724-5733.	4.0	7
8	Mechanistic Insights into the Nickel-Catalyzed Regioselective Carboxylation of Allylic Alcohols. <i>Organometallics</i> , 2021, 40, 869-879.	2.3	15
9	Mechanism of the Ir/Pd catalyzed photocarboxylation of aryl halides. <i>Chinese Chemical Letters</i> , 2021, 32, 1403-1406.	9.0	7
10	Structure Determination of the Cl-Enriched [Ag ₅₂ (SAdm) ₃₁ Cl ₁₃] ²⁺ Nanocluster. <i>Inorganic Chemistry</i> , 2021, 60, 14803-14809.	4.0	1
11	New atomically precise M ₁ Ag ₂₁ (M = Au/Ag) nanoclusters as excellent oxygen reduction reaction catalysts. <i>Chemical Science</i> , 2021, 12, 3660-3667.	7.4	22
12	A mechanistic study on the regioselective Ni-catalyzed methylation-alkenylation of alkyne with AlMe ₃ and allylic alcohol. <i>Organic Chemistry Frontiers</i> , 2021, 9, 163-172.	4.5	9
13	Selective separation of thorium from rare earths and uranium in acidic solutions by phosphorodiamidate-functionalized silica. <i>Chemical Engineering Journal</i> , 2020, 392, 123717.	12.7	31
14	The geometric and electronic structures of a Ag ₁₃ Cu ₁₀ (SAdm) ₁₂ X ₃ nanocluster. <i>Dalton Transactions</i> , 2020, 49, 17164-17168.	3.3	7
15	A mechanistic study on Cu(i) catalyzed carboxylation of the C-F bond with CO ₂ : a DFT study. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 9065-9071.	2.8	7
16	Structure and Properties of of Physical Chemistry C, 2020, 124, 21867-21873.	3.1	5
17	Mechanistic study on the regioselective Ni-catalyzed dicarboxylation of 1,3-dienes with CO ₂ . <i>Organic Chemistry Frontiers</i> , 2020, 7, 4080-4088.	4.5	5
18	Ligand Effect on Geometry and Electronic Structures of Face-Centered Cubic Ag ₁₄ and Ag ₂₃ Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13421-13426.	3.1	4

#	ARTICLE	IF	CITATIONS
19	All-thiolate-stabilized Ag ₄₂ nanocluster with a tetrahedral kernel and its transformation to an Ag ₆₁ nanocluster with a bi-tetrahedral kernel. <i>Chemical Communications</i> , 2020, 56, 7605-7608.	4.1	17
20	Density functional theory investigations on the coordination of Pa(V) with N,N-dialkylamide. <i>New Journal of Chemistry</i> , 2020, 44, 9477-9484.	2.8	1
21	Core Charge Density Dominated Size-Conversion from Au ₆ P ₈ to Au ₈ P ₈ Cl ₂ . <i>Chemistry - A European Journal</i> , 2020, 26, 12382-12387.	3.3	8
22	Rhombicuboctahedral Ag ₁₀₀ : Four-Layered Octahedral Silver Nanocluster Adopting the Russian Nesting Doll Model. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17234-17238.	13.8	38
23	Rhombicuboctahedral Ag ₁₀₀ : Four-Layered Octahedral Silver Nanocluster Adopting the Russian Nesting Doll Model. <i>Angewandte Chemie</i> , 2020, 132, 17387-17391.	2.0	5
24	Steric and Electrostatic Control of the pH-Regulated Interconversion of Au ₁₆ (SR) ₁₂ and Au ₁₈ (SR) ₁₄ (SR: Deprotonated) Tj ETQq0 0 ArgBT /Overlock 10 T		
25	A novel geometric structure of a nanocluster with an irregular kernel: Ag ₃₀ Cu ₁₄ (TPP) ₄ (SR) ₂₈ . <i>Dalton Transactions</i> , 2020, 49, 7684-7687.	3.3	7
26	Highly selective conversion of glyceric acid to 3-iodopropionic acid by hydriodic acid mediated hydrogenation. <i>Green Chemistry</i> , 2019, 21, 4434-4442.	9.0	12
27	The Structure-Property Correlations in the Isomerism of Au ₂₁ (SR) ₁₅ Nanoclusters by Density Functional Theory Study. <i>Chemistry - an Asian Journal</i> , 2019, 14, 4303-4308.	3.3	8
28	Exposing the Delocalized Cu-S Bonds on the Au ₂₄ Cu ₆ (SPh _t Bu) ₂₂ Nanocluster and Its Application in Ring-Opening Reactions. <i>Angewandte Chemie</i> , 2019, 131, 15818-15821.	2.0	9
29	Exposing the Delocalized Cu-S Bonds on the Au ₂₄ Cu ₆ (SPh _t Bu) ₂₂ Nanocluster and Its Application in Ring-Opening Reactions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15671-15674.	13.8	54
30	Face-Centered-Cubic Ag Nanoclusters: Origins and Consequences of the High Structural Regularity Elucidated by Density Functional Theory Calculations. <i>Chemistry - A European Journal</i> , 2019, 25, 13977-13986.	3.3	10
31	Binding affinity of pyridines with Am ^{III} /Cm ^{III} elucidated by density functional theory calculations. <i>Dalton Transactions</i> , 2019, 48, 1613-1623.	3.3	5
32	Mechanistic Study on Decarbonylative Phosphorylation of Aryl Amides by Nickel Catalysis. <i>Journal of Organic Chemistry</i> , 2019, 84, 9474-9479.	3.2	12
33	The Ligand-Exchange Reactions of Rod-Like Au ₂₅ M _n (M=Au, Ag, Cu, Pd, Pt) Nanoclusters with Cysteine - A Density Functional Theory Study. <i>ChemPhysChem</i> , 2019, 20, 1822-1829.	2.1	4
34	The Structure of a Au ₇ Cu ₁₂ Bimetal Nanocluster and Its Strong Emission. <i>Inorganic Chemistry</i> , 2019, 58, 7136-7140.	4.0	25
35	Density Functional Theory Investigations on the Mechanism of Formation of Pa(V) Ion in Hydrous Solutions. <i>Molecules</i> , 2019, 24, 1169.	3.8	1
36	Unexpected Observation of Heavy Monomeric Motifs in a Basket-like Au ₂₆ Ag ₂₂ Nanocluster. <i>Inorganic Chemistry</i> , 2019, 58, 1724-1727.	4.0	4

#	ARTICLE	IF	CITATIONS
37	The photoluminescent metal nanoclusters with atomic precision. <i>Coordination Chemistry Reviews</i> , 2019, 378, 595-617.	18.8	178
38	Radical Carbofluorination of Unactivated Alkenes with Fluoride Ions. <i>Journal of the American Chemical Society</i> , 2018, 140, 6169-6175.	13.7	87
39	Mechanistic insights into the ligand-controlled regioselectivity in Cu-catalyzed terminal alkynes alkylboration. <i>Journal of Organometallic Chemistry</i> , 2018, 871, 48-55.	1.8	9
40	Mechanism and Origins of Chemo- and Regioselectivities of Pd-Catalyzed Intermolecular I _f -Bond Exchange between Benzocyclobutenones and Silacyclobutanes: A Computational Study. <i>Organometallics</i> , 2018, 37, 592-602.	2.3	29
41	A novel carbazole derivative containing fluorobenzene unit: aggregation-induced fluorescence emission, polymorphism, mechanochromism and non-reversible thermo-stimulus fluorescence. <i>CrystEngComm</i> , 2018, 20, 2772-2779.	2.6	18
42	A single palladium site catalyst as a bridge for converting homogeneous to heterogeneous in dimerization of terminal aryl acetylenes. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1317-1322.	5.9	23
43	X-ray crystal structure and doping mechanism of bimetallic nanocluster Au ₃₆ Cu _x (M-MBT) ₂₄ (x = 1-3). <i>Dalton Transactions</i> , 2018, 47, 475-480.	3.3	15
44	Mechanism and Origin of the Stereoselectivity in the Palladium-Catalyzed <i>trans</i> Hydroboration of Internal 1,3-Enynes with an Azaborine-Based Phosphine Ligand. <i>Chemistry - A European Journal</i> , 2018, 24, 178-186.	3.3	35
45	Fluorescence signal amplification of gold nanoclusters with silver ions. <i>Analytical Methods</i> , 2018, 10, 5181-5187.	2.7	3
46	Versatile Ligand-Exchange Method for the Synthesis of Water-Soluble Monodisperse AuAg Nanoclusters for Cancer Therapy. <i>ACS Applied Nano Materials</i> , 2018, 1, 6773-6781.	5.0	17
47	A Unique Pair: Ag ₄₀ and Ag ₄₆ Nanoclusters with the Same Surface but Different Cores for Structure-Property Correlation. <i>Journal of the American Chemical Society</i> , 2018, 140, 15582-15585.	13.7	80
48	Front Cover Picture: Boosting the Activity of Ligand-Free Atomically Precise Pd ₃ Cl Cluster Catalyst by Metal-Support Interaction from Kinetic and Thermodynamic Aspects (<i>Adv. Synth. Catal.</i>)		
49	Cancer cell specific fluorescent methionine protected gold nanoclusters for in-vitro cell imaging studies. <i>Talanta</i> , 2018, 188, 259-265.	5.5	22
50	Mechanism of Photocatalytic Cyclization of Bromoalkenes with a Dimeric Gold Complex. <i>Organometallics</i> , 2018, 37, 1725-1733.	2.3	9
51	Single-ligand exchange on an Au-Cu bimetal nanocluster and mechanism. <i>Nanoscale</i> , 2018, 10, 12093-12099.	5.6	30
52	Boosting the Activity of Ligand-Free Atomically Precise Pd ₃ Cl Cluster Catalyst by Metal-Support Interaction from Kinetic and Thermodynamic Aspects. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 4731-4743.	4.3	17
53	Mechanistic insights into the ruthenium-catalyzed site-selective oxidation of alcohols. <i>Organic Chemistry Frontiers</i> , 2018, 5, 2473-2478.	4.5	7
54	Total Structure Determination of Au ₁₆ (S-Adm) ₁₂ and Cd ₁ Au ₁₄ (S-t-Bu) ₁₂ and Implications for the Structure of Au ₁₅ (SR) ₁₃ . <i>Journal of the American Chemical Society</i> , 2018, 140, 10988-10994.	13.7	81

#	ARTICLE	IF	CITATIONS
55	Two-Photon Fluorescent Probe for Monitoring Autophagy via Fluorescence Lifetime Imaging. <i>Analytical Chemistry</i> , 2018, 90, 7122-7126.	6.5	117
56	Pd-Catalyzed Vinylation of Aryl Halides with Inexpensive Organosilicon Reagents Under Mild Conditions. <i>Chemistry - A European Journal</i> , 2018, 24, 10324-10328.	3.3	8
57	Crystal Structures of Two New Gold-Copper Bimetallic Nanoclusters: $\text{Cu}_{25}\text{Au}_{25}(\text{PPh}_3)_{10}(\text{PhC}_2\text{H}_4\text{S})_4$ and $\text{Cu}_3\text{Au}_{34}(\text{PPh}_3)_{13}(\text{tBuPhCH}_2\text{S})_6$. <i>Inorganic Chemistry</i> , 2017, 56, 1771-1774.	4.0	44
58	Mechanistic Study on the Ruthenium-Catalyzed Terminal Alkyne Hydrochlorination. <i>Organometallics</i> , 2017, 36, 523-529.	2.3	11
59	$\text{Au}_{15}\text{Ag}_3(\text{SPhMe})_{14}$ Nanoclusters - Crystal Structure and Insights into Ligand-Induced Variation. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1414-1419.	2.0	34
60	A two-photon fluorescent probe for real-time monitoring of autophagy by ultrasensitive detection of the change in lysosomal polarity. <i>Chemical Communications</i> , 2017, 53, 3645-3648.	4.1	85
61	Mechanism of Nickel-Catalyzed Suzuki-Miyaura Coupling of Amides. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1765-1772.	3.3	25
62	Mechanistic Investigation of Visible-Light-Induced Intermolecular [2 + 2] Photocycloaddition Catalyzed with Chiral Thioxanthone. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4552-4559.	2.5	9
63	Modulating photo-luminescence of Au_2Cu_6 nanoclusters via ligand-engineering. <i>RSC Advances</i> , 2017, 7, 28606-28609.	3.6	35
64	In Situ Two-Phase Ligand Exchange: A New Method for the Synthesis of Alloy Nanoclusters with Precise Atomic Structures. <i>Journal of the American Chemical Society</i> , 2017, 139, 5668-5671.	13.7	90
65	Substrate-Assisted, Transition-Metal-Free Diboration of Alkynamides with Mixed Diboron: Regio- and Stereoselective Access to trans-1,2 -Vinylidiboronates. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5111-5115.	13.8	61
66	Polypropylene Modified with Amidoxime/Carboxyl Groups in Separating Uranium(VI) from Thorium(IV) in Aqueous Solutions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1924-1930.	6.7	75
67	Selective Radical Fluorination of Tertiary Alkyl Halides at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15411-15415.	13.8	46
68	Mechanistic Study on Nickel-Catalyzed Silylation of Aryl Methyl Ethers. <i>Chemistry - A European Journal</i> , 2017, 23, 17249-17256.	3.3	20
69	Synthesis and Structure of Self-Assembled $\text{Pd}_2\text{Au}_{23}(\text{PPh}_3)_{10}\text{Br}_7$ Nanocluster: Exploiting Factors That Promote Assembly of Icosahedral Nano-Building-Blocks. <i>Chemistry of Materials</i> , 2017, 29, 6856-6862.	6.7	40
70	Crystallization-induced emission enhancement: A novel fluorescent Au-Ag bimetallic nanocluster with precise atomic structure. <i>Science Advances</i> , 2017, 3, e1700956.	10.3	167
71	Theoretical investigations on the structure-property relationships of Au_{13} and $\text{Au}_x\text{M}_{13-x}$ nanoclusters. <i>RSC Advances</i> , 2017, 7, 51538-51545.	3.6	5
72	Superior ligand for Pd(II)-catalyzed enantioselective arylation of $\text{C}(\text{sp}^3)\text{-H}$ bonds: chiral acetyl protected aminoethyl quinoline. <i>Science China Chemistry</i> , 2017, 60, 165-166.	8.2	9

#	ARTICLE	IF	CITATIONS
73	Computational Study of Formic Acid Dehydrogenation Catalyzed by Al ^{III} -Bis(imino)pyridine. <i>Chemistry - A European Journal</i> , 2016, 22, 4584-4591.	3.3	22
74	Bimetallic Au ₂ Cu ₆ Nanoclusters: Strong Luminescence Induced by the Aggregation of Copper(I) Complexes with Gold(0) Species. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3611-3614.	13.8	200
75	Heteroatom Effects on the Optical and Electrochemical Properties of Ag ₂₅ (SR) ₁₈ and Its Dopants. <i>ChemElectroChem</i> , 2016, 3, 1261-1265.	3.4	42
76	Bimetallic Au ₂ Cu ₆ Nanoclusters: Strong Luminescence Induced by the Aggregation of Copper(I) Complexes with Gold(0) Species. <i>Angewandte Chemie</i> , 2016, 128, 3675-3678.	2.0	44
77	Titelbild: Bimetallic Au ₂ Cu ₆ Nanoclusters: Strong Luminescence Induced by the Aggregation of Copper(I) Complexes with Gold(0) Species (<i>Angew. Chem.</i> 11/2016). <i>Angewandte Chemie</i> , 2016, 128, 3577-3577.	2.0	0
78	Mechanism of Vanadium-Catalyzed Selective C=O and C=C Cleavage of Lignin Model Compound. <i>ACS Catalysis</i> , 2016, 6, 4399-4410.	11.2	90
79	Density functional theory calculations on S-S bond dissociation energies of disulfides. <i>Journal of Physical Organic Chemistry</i> , 2016, 29, 6-13.	1.9	22
80	A self-catalytic role of methanol in PNP-Ru pincer complex catalysed dehydrogenation. <i>Science China Chemistry</i> , 2016, 59, 724-729.	8.2	12
81	Density functional theory investigation on Pd-catalyzed cross-coupling of azoles with aryl thioethers. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 4499-4506.	2.8	16
82	Mechanistic Study on Gold-Catalyzed Highly Selective Hydroamination of Alkylidenecyclopropanes. <i>Journal of Organic Chemistry</i> , 2016, 81, 7326-7335.	3.2	20
83	The solely motif-doped Au _{36-x} Ag _x (SPh-tBu) ₂₄ (x = 1-8) nanoclusters: X-ray crystal structure and optical properties. <i>Nanoscale</i> , 2016, 8, 15317-15322.	5.6	32
84	Structure-activity relationships in Pd catalysed S activation of thioesters. <i>RSC Advances</i> , 2016, 6, 61996-62004.	3.6	6
85	Mechanism of Ligand-Controlled Regioselectivity-Switchable Copper-Catalyzed Alkylboration of Alkenes. <i>Chemistry - A European Journal</i> , 2016, 22, 14611-14617.	3.3	36
86	The coordination of amidoxime ligands with uranyl in the gas phase: a mass spectrometry and DFT study. <i>Dalton Transactions</i> , 2016, 45, 16413-16421.	3.3	10
87	Mechanism of Boron-Catalyzed N-Alkylation of Amines with Carboxylic Acids. <i>Journal of Organic Chemistry</i> , 2016, 81, 6235-6243.	3.2	27
88	Shape-Controlled Synthesis of Trimetallic Nanoclusters: Structure Elucidation and Properties Investigation. <i>Chemistry - A European Journal</i> , 2016, 22, 17145-17150.	3.3	67
89	Noble and valuable: atomically precise gold nanoclusters. <i>Science China Chemistry</i> , 2016, 59, 206-208.	8.2	15
90	Size-confined growth of atom-precise nanoclusters in metal-organic frameworks and their catalytic applications. <i>Nanoscale</i> , 2016, 8, 1407-1412.	5.6	74

#	ARTICLE	IF	CITATIONS
91	Mechanism of the Visible Light-Mediated Gold-Catalyzed Oxyarylation Reaction of Alkenes. ACS Catalysis, 2016, 6, 798-808.	11.2	91
92	A mitochondria-targeted ratiometric two-photon fluorescent probe for biological zinc ions detection. Biosensors and Bioelectronics, 2016, 77, 921-927.	10.1	42
93	Ligand-Controlled Regiodivergent Copper-Catalyzed Alkylboration of Alkenes. Angewandte Chemie - International Edition, 2015, 54, 12957-12961.	13.8	164
94	Mechanism of Nickel(II)-Catalyzed Oxidative C(sp ²)-H/C(sp ³)-H Coupling of Benzamides and Toluene Derivatives. Chemistry - an Asian Journal, 2015, 10, 2479-2483.	3.3	31
95	Room-Temperature Decarboxylative Couplings of α -Oxocarboxylates with Aryl Halides by Merging Photoredox with Palladium Catalysis. Chemistry - A European Journal, 2015, 21, 13191-13195.	3.3	132
96	Desulfurization Mechanism of Cysteine in Synthesis of Polypeptides. Chinese Journal of Chemical Physics, 2015, 28, 269-276.	1.3	2
97	A ratiometric two-photon fluorescent probe for hydrazine and its applications. Sensors and Actuators B: Chemical, 2015, 220, 1338-1345.	7.8	63
98	Mechanistic Study on Ligand-Controlled Rh(I)-Catalyzed Coupling Reaction of Alkene-Benzocyclobutenone. ACS Catalysis, 2015, 5, 4881-4889.	11.2	34
99	Accurate Prediction of Ir-H Bond Dissociation Enthalpies by Density Functional Theory Methods. Chinese Journal of Chemistry, 2014, 32, 269-275.	4.9	12
100	Mechanistic Study of Chemoselectivity in Ni-Catalyzed Coupling Reactions between Azoles and Aryl Carboxylates. Journal of the American Chemical Society, 2014, 136, 8252-8260.	13.7	125
101	Mechanistic Study of Borylation of Nitriles Catalyzed by Rh-B and Ir-B Complexes via C-CN Bond Activation. Organometallics, 2013, 32, 926-936.	2.3	48
102	Mechanistic Origin of Cross-Coupling Selectivity in Ni-Catalysed Tishchenko Reactions. Chemistry - A European Journal, 2012, 18, 16765-16773.	3.3	38
103	Alternative Mechanistic Explanation for Ligand-Dependent Selectivities in Copper-Catalyzed <i>N</i> - and <i>O</i> -Arylation Reactions. Journal of the American Chemical Society, 2010, 132, 18078-18091.	13.7	196
104	Copper-Catalyzed Decarboxylative Cross-Coupling of Potassium Polyfluorobenzoates with Aryl Iodides and Bromides. Angewandte Chemie - International Edition, 2009, 48, 9350-9354.	13.8	282
105	Theoretical Investigations on Mechanisms of Pd(OAc) ₂ -Catalyzed Intramolecular Diaminations in the Presence of Bases and Oxidants. Organometallics, 2009, 28, 4507-4512.	2.3	34
106	Aggregative Growth of Oligopeptide-Protected Gold Nanoclusters into Plasmonic Particles. ChemNanoMat, 0, , e202100449.	2.8	1